

Application No.: 09/682,074

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

**Claim 1 [Currently Amended]**

A method comprising the steps of:

(a) receiving ~~location~~ data corresponding to a plurality of ~~probe-feature probe~~ locations on a substrate;

(b) storing the ~~location~~ data;

(c) providing a first user interface that enables user selection of the data;

(~~[[c]]~~d) accessing the ~~location~~ data based, at least in part, on the user selection;

and

(~~[[d]]~~e) scanning the substrate based, at least in part, on the accessed ~~location~~ data.

**Claim 2 [Currently Amended]**

The method of claim 1, further comprising:

(~~[[e]]~~f) providing a ~~first~~ second user interface that enables user specification of the ~~probe-feature probe~~ locations.

**Claim 3 [Cancelled]**

**Claim 4 [Currently Amended]**

The method of claim 2, wherein:

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the ~~first~~ second user interface enables user specification of the ~~probe feature~~ probe locations by specifying one or more spacing distances between ~~probe features~~ probes.

Claim 5 [Currently Amended]

The method of claim 2, wherein:

the ~~first~~ second user interface enables user specification of the one or more ~~probe feature~~ probe locations by specifying one or more patterns of ~~probe feature~~ probe locations.

Claim 6 [Currently Amended]

The method of claim 2, wherein:

The ~~first~~ second user interface enables user specification of the one or more ~~probe feature~~ probe locations by specifying coordinates.

Claim 7 [Original]

The method of claim 6, wherein:

the coordinates include x and y coordinates.

Claim 8 [Original]

The method of claim 6, wherein:

the coordinates include user-specified coordinates of a reference point on the substrate.

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Claim 9 [Currently Amended]

The method of claim 6, wherein:

the coordinates include user-specified coordinates of one or more ~~probe-feature~~  
probe locations on the substrate.

Claim 10 – 11 [Cancelled]

Claim 12 [Currently Amended]

The method of claim ~~[[11]]~~1, ~~further comprising~~ wherein:

~~(f) transferring the location data is received from the memory of a first computer~~  
~~to the by memory unit of a second computer; and~~

~~(g) providing a second user interface that enables user selection of the location~~  
~~data; and~~

~~(h) accessing the location data is accessed from the memory of the second~~  
~~computer based, at least in part, on the user selection.~~

Claim 13 [Original]

The method of claim 12, wherein:

the second computer is constructed and adapted to control a scanner.

Claim 14 [Currently Amended]

The method of claim 1, wherein:

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the ~~probe feature~~ probe locations include locations of probes of a spotted array.

Claim 15 [Currently Amended]

The method of claim 1, wherein:

the ~~probe feature~~ probe locations include locations of probes of a synthesized array.

Claim 16 - 17 [Cancelled]

Claim 18. [Currently Amended]

A computer program product, comprising:

(a) a user-interface manager that

(i) enables user specification of a plurality of ~~probe feature~~ probe locations on a substrate, wherein the user-interface manager enables user specification of the probe locations by specifying from the group consisting of one or more spacing distances between probes, one or more patterns of probe locations, and one or more probe locations by specifying coordinates, and

(ii) provides ~~location~~ data corresponding to the ~~probe feature~~ probe locations;

(b) a data storage manager that stores the ~~location~~ data in ~~[[a]]~~ memory ~~unit~~; and

(c) an output manager enabled to provide the ~~location~~ data to a scanner control application constructed and arranged to cause scanning of the substrate based, at least in part, on the accessed ~~location~~ data.

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Claims 19-21 [Cancelled]

Claim 22 [Currently Amended]

The computer program product of claim ~~[[21]]~~18, wherein:  
the coordinates include x and y coordinates.

Claim 23 [Currently Amended]

The computer program product of claim ~~[[21]]~~18, wherein:  
the coordinates include user-specified coordinates of a reference point on the  
substrate.

Claim 24 [Currently Amended]

The computer program product of claim ~~[[21]]~~18, wherein:  
the coordinates include user-specified coordinates of one or more ~~probe feature~~  
probe locations on the substrate.

Claims 25-26 [Cancelled]

Claim 27 [Currently Amended]

A computer program product, comprising:  
(a) a data retriever that provides a user interface that enables a user selection of  
~~accesses location~~ data corresponding to a plurality of ~~probe feature~~ probe locations on a

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substrate and accesses the data based, at least in part, on the user selection, wherein the data retriever receives the data from memory of a first computer and stores the data in memory of a second computer; and

(b) a scan-area controller that controls scanning of the substrate based, at least in part, on the accessed ~~location~~ data.

Claim 28 [Cancelled]

Claim 29 [Currently Amended]

The computer program product of claim ~~[[28]]~~27, wherein:

the first computer is constructed and adapted to control an arrayer.

Claim 30 – 31 [Cancelled]

Claim 32 [Currently Amended]

The computer program product of claim ~~[[31]]~~27, wherein:

the second computer is constructed and adapted to control a scanner.

Claim 33 [Currently Amended]

The computer program product of claim 27, wherein:

the ~~probe feature~~ probe locations include locations of probes of a spotted array.

Claim 34 [Currently Amended]

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The computer program product of claim 27, wherein:  
the ~~probe-feature~~ probe locations include locations of probes of a synthesized array.

Claim 35 [Currently Amended]

A scanning system, comprising:

(a) a scanner; and

(b) a computer program product, comprising

(i) a data retriever that provides a user interface that enables a user selection of accesses location data corresponding to a plurality of ~~probe-feature~~ probe locations on a substrate and accesses the data based, at least in part, on the user selection, wherein the data retriever receives the data from memory of a first computer and stores the data in memory of a second computer, and

(ii) a scan-area controller that controls scanning by the scanner of the substrate based, at least in part, on the accessed ~~location~~ data.

Claim 36 [Currently Amended]

A scanning system, comprising:

(a) a computer;

(b) a scanner; and

(c) a computer program product that, when executed on the first computer, performs a method comprising the steps of

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(i) receiving data corresponding to a plurality of probe locations on a substrate,

(ii) storing the data,

(iii) providing a user interface that enables a user selection of  
accessing the location data corresponding to a plurality of probe feature probe locations  
on a substrate,

(iv) accessing the data based, at least in part, on the user selection, and

(v) controlling scanning by the scanner of the substrate based, at least  
in part, on the accessed location data.